

Custom Scoliosis Orthoses Overview



Providence Nocturnal
Scoliosis® Brace



SCT 3D Full-Time
Scoliosis Brace



SCT 3D Chêneau (Style)
Scoliosis Brace

At Spinal Technology, LLC, we believe that sharing our knowledge, absorbing that of others, and working together as a team, is the most effective way to advance the treatment and care for all patients.

Adolescent Idiopathic Scoliosis (AIS) is recognized as the most common type of spinal deformity and estimated to affect anywhere from 2% to 5% of all children. The course of treatment can vary depending on the severity and can include observation, physical therapy, orthotic bracing, surgery, or various combinations thereof. For most patients with scoliosis, this means that they will likely have interactions with multiple practitioners of varying expertise throughout their youth. Communication, continuity, and collaboration among all disciplines involved, including support of the patient's family, are paramount to successful outcomes and quality of life for each patient.

As part of the clinical team, we are driven to go beyond the physical products that we provide, and offer our expertise and support with all the resources we have. With a passion for treating scoliosis, we make it our priority to share our knowledge, teach what we know best, and create the tools and materials for improving patient care.

The introduction of varying brace designs can often present conflicting perspectives on the appropriateness of any particular method of treatment. As extensive research is presented on a broad scope of new concepts, the basic principles and understandings of effective bracing tend to become less clear. We believe a concise foundation of knowledge is critical to successful scoliosis management.

At Spinal Technology, LLC, we recognize the importance of continuous education and are pleased to provide informational material and support to those who share our commitment to advancing the care of patients challenged with scoliosis.

**The Clinical Development & Education Team at
Spinal Technology, LLC.**

Providence Nocturnal Scoliosis® Brace



Product Overview

The Providence Nocturnal Scoliosis® System has been successful in treating all curve types: lumbar, thoracic, double major, and thoracolumbar.

The Providence Nocturnal Scoliosis® Orthosis is effective for treatment of Adolescent Idiopathic Scoliosis (AIS). This orthosis is suited for neurologically involved patients, idiopathic adolescents and juvenile scoliosis patients as well as obese patients. Because of the nocturnal design, it is able to address an apex of T6, which is higher than can be treated by a full-time scoliosis orthosis. Apices above T6 can be treated with a neck extension attached to the orthosis. The Providence® is designed to be worn with the patient supine.

Current x-rays are necessary to confirm and provide a positive outcome. Because of the nocturnal use of the orthosis, the curves can be treated more aggressively and better patient compliance is achieved. A cast or scan of a patient is required if the patient is unable to be measured using the Providence board or if a board is not available.

Spinal Technology is the exclusive manufacturer of the Providence Nocturnal Scoliosis® Orthosis.

Spinal Indications

- Lumbar Curves
- Thoracic Curves
- Double Major Curves
- Thoracolumbar Curves

Full-Time Scoliosis Brace



Product Overview

The full-time scoliosis orthosis is a TLSO designed to slow the progression of scoliosis in growing spines. The brace has been clinically proven to control curve progression in Lumbar, Thoracic and Thoracolumbar spinal curves. This orthosis is effective for treatment of Adolescent Idiopathic Scoliosis (AIS).

Using the patients x-rays to define the spinal curve presented, the brace is fabricated based on scan, measurements or cast taken and is custom fit for each individual patient.

Spinal Indications

- Idiopathic Scoliosis
- Lumbar Curves
- Thoracic Curves
- Double Major Curves
- Thoracolumbar Curves

Features

- Custom to scan, measurement, or cast.
- Pressure pads with relief opposite.
- Finished to x-rays provided.
- Can treat apices up to T-7.
- Many design variations available.

SCT 3D Full-Time Scoliosis Brace



Product Overview

Our SCT 3D Full-Time Scoliosis Orthosis is designed using CAD/CAM technology. This orthosis provides a brace design that corrects the spine based on three body planes, the Sagittal, Coronal and Transverse (SCT) and provides a precise combination of lateral and rotational forces that move the spine into a corrected position.

This design allows for lateral shift of the curves to midline and provides relief/void areas on opposing sides of the scoliosis curve from both rotational and lateral forces.

Using CAD/CAM technology allows for precise fabrication to maximize spinal correction that can be measured to the exact millimeter.

Spinal Indications

- Idiopathic Scoliosis
- Lumbar Curves
- Thoracic Curves
- Double Major Curves
- Thoracolumbar Curves

SCT 3D Chêneau (Style) Scoliosis Brace



Product Overview

The SCT 3D Chêneau (Style) brace is a corrective TLSO uniquely constructed to bring the body and spine into the best possible postural and morphological 3D corrected alignment by using a combination of forces applied to the body surface by specifically designed pads, facilitated by expansion or relief spaces. The brace is open in front and can be considered rigid and dynamic at the same time.

All the pads are located, shaped, and oriented in a highly specific manner to push on selected regions of the trunk to bring the patient into the best possible 3D correction, while the remaining areas are not touched by the brace (i.e., areas of expansion or relief spaces). The corrective reaction of the body depends on the level, shape, and orientation of the pads.

Based on the patients X-rays, the observed spinal curve pattern determines the specific design of the pads and expansion spaces.

The SCT 3D Chêneau (Style) brace is a 3D corrective orthosis able to provide excellent in-brace correction as well as radiological and cosmetic end results.

Spinal Indications

- Idiopathic Scoliosis
- Lumbar Curves
- Thoracic Curves
- Double Major Curves
- Thoracolumbar Curves

Kyphosis Braces



Low Profile with Custom Sternal Shield

Product Overview

In a healthy spine, its natural curve should be at an angle around 20-45 degrees. Those who have kyphosis, however, their abnormal curvature in their spine sits at an angle of over 50 degrees.

Our Kyphosis orthosis is low profile with a custom sternal shield attached. The posterior is reinforced and allows for corrective force at the apex of kyphosis. This brace is designed to help correct and stabilize this condition.

Spinal Indications

- Scheuermann's Kyphosis
- Mild Structural Kyphosis
- Postural Stabilization

Features

- Anterior Milwaukee bar with sternal shield allows for height adjustment and extension force.
- Easily concealed under clothing.
- Low profile design increases compliance.
- Posterior is reinforced to allow corrective force at apex of kyphosis.



Kyphosis Brace with Anterior Opening & Cow Horns

Product Overview

The Kyphologic style w/ Anterior opening & "Cow Horns" that attach laterally and allows for a corrective force at the apex of kyphosis. The brace is used to correct Kyphosis and stabilize adult patients.

Spinal Indications

- Mild Structural Kyphosis
- Scheuermann's Kyphosis
- Postural Stabilization
- Kyphoscoliosis

Features

- The trims are designed to allow hips & scapulae to be relieved of pressure, to move more freely and is easier to conceal under clothing.
- "Cow Horns" allow for adjustment of height, & pivot for more extension force.

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The stTracker® Compliance Monitor System

The stTracker® can improve the patients' outcome by monitoring patient compliance.

In the treatment of Adolescent Idiopathic Scoliosis (AIS), compliance is one of the most important factors in successful bracing. Our stTracker® system takes guesswork out of the equation.

The system includes our online stTracker® portal, and a USB compatible reader. The portal and reader are designed to work with

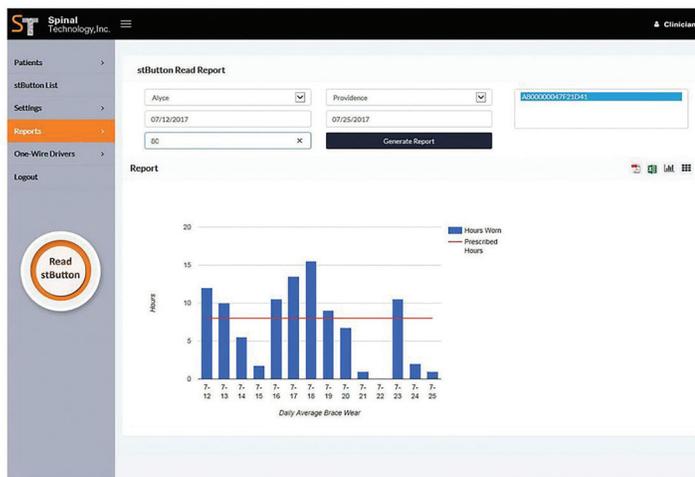
the stTracker® monitor button that can be added to any one of the many custom scoliosis braces we fabricate. (Reader and usb attachment sold together – monitor button is purchased separately.)

Practitioners can use our stTracker® portal from any location, computer or device that has internet access. It's a great tool for practices with multiple locations.

The stTracker® Portal

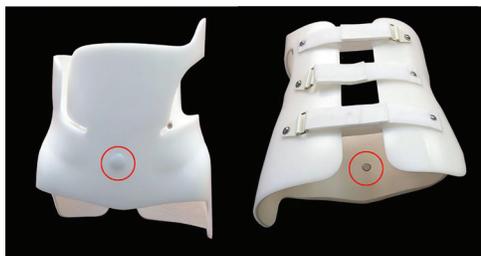
The stTracker® portal has a user friendly dashboard that allows practitioners to customize patient brace wearing data into easily read reports and three types of linear graphs to chart wearing compliance. Users have the ability to set up multiple patients, establish individual schedules by date and time, view & print reports.

Each stTracker® monitor button can be formatted and easily programmed for individual patient wearing schedules via the portal software. The portal is cloud based and HIPAA compliant.



Portal Interface

The stTracker® Monitor Button



The stTracker® monitor button works by reading body heat when the brace is donned.

For more information on the stTracker® call us at 800 253 7868 or visit SpinalTechnology.com

Send your orders to:
orders@spinaltech.com

800 253 7868 | SpinalTechnology.com

The stTracker® Reader

The reader allows you to transfer the data from the monitor button into the stTracker® portal to review wearing compliance and create outcome reports.



The stTracker® helps doctors, orthotists, parents, and patients share the common goal of compliance.

- **Removes compliance guesswork**
- **Highly accurate monitoring**
- **Easy to use and read**
- **Powerful reporting software**
- **Monitor buttons are re-usable**
- **Portal can be accessed by multiple users and in multiple locations**
- **Cloud based server that is HIPAA compliant and will store your data safely**

